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(54) **ADJUSTABLE FIT DISPOSABLE TRAINING PANT OR INCONTINENCE GARMENT HAVING DISPOSABLE MEANS**

**EINWEG-GEWÖHNUNGSHÖSCHEN MIT EINSTELLBAREM SITZ ODER  
INKONTINENZKLEIDUNGSTÜCK MIT EINER EINWEGEINRICHTUNG**

**CULOTTE DE PROPRETE OU VETEMENT POUR INCONTINENCE JETABLES A ELEMENT  
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(56) References cited:  
**EP-A- 0 374 730** **EP-A- 0 529 681**  
**EP-A- 0 570 980**

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## Description

**[0001]** The present invention relates to a disposable training pant or incontinent garment where improved fit and adjustability is provided. Specifically, the invention relates to disposable training pants for a child or adult incontinent articles. Generally these incontinent articles or training pants have elasticated side panels with woven or nonwoven fibrous layers provided on the outer and/or inner faces of the elastic side panels.

**[0002]** Conventional baby diapers and some adult incontinent products are produced with adjustable adhesive closure systems provided on opposing ears or corner portions of the garment. These closure systems comprise a pressure sensitive adhesive fastening tab permanently attached to one garment ear at one end of the fastening tab with a fastening tab free end stored on a release tape or film prior to use. The fastening tab is permanently attached at one end of the diaper and the fastening tab free end releasably secures to an opposing end of the diaper when in use. The diaper opposing end, generally the front end, is often provided with a reinforcement strip or tape on the inner or outer face of an outer liquid-impermeable back sheet where the fastening tab free end adheres. The back sheet is conventionally a thin polyethylene polymer or copolymer film. As the adhesive fastening tab free end can be placed across the entire front end of the diaper the diaper waist opening is easily adjusted to the individual wearer.

**[0003]** When training the child to use a toilet, traditionally, a training pant is used. This training pant is generally a cloth garment provided with absorbent fabric and is used in combination with a rubber outer pant, or the like. Recently, disposable training pants have become popular. However, these disposable training pants lack the adjustability of a conventional diaper adhesive fastening tab closure system.

**[0004]** Slight adjustability in fit or size have been obtained by extensive use of elastics in disposable training pants. The elastics are used, for example; in the leg regions; in the waist regions; along the side panel portions of the training pants, as disclosed in U.S. Patent No. 4,938,753 (van Gompel et al.) - elasticized stretchable side panels; U.S. Patent No. 5,246,433 (Hasse et al.) - elasticated ear flaps; European Patent 547 497 A2 (van Gompel et al.) - elastic side panels having a gradient stretch or elastic bands in the side panels; European Patent 526 868 A2 - elastic front ear portions or U.S. Patent No. 5,163,932 (Nomura et al.) - elasticated waist and leg regions. Others patents describing the use of elastics include U.S. Patent Nos. 4,940,464; 4,938,757; 5,171,439; and 5,188,627. The difficulty with these designs rests in the limited adjustability provided by elastics regardless of placement (be it in the waist, leg, side panel region or a combination thereof) or the extent to which elastic is used in the training pants. Although generally the more elastic used the more adjustable the fit or size there are limits. Generally improvements in

adjustability of fit diminish with increasing use of elastic in a training pant design. Further using increased levels of elastic in a disposable training pant also increases manufacturing complexity and cost.

**[0005]** EP-A-0 570 980 discloses a disposable diaper having a mechanical fastening tab with a nonwoven fibrous material. The fastening tab has to be adequately engaged with the nonwoven fibrous material during the manufacturing process of the disposable diaper by heat bonding.

**[0006]** EP-A-0 529 681 discloses a disposable absorbent article with a mechanical fastening system having disposal means so as to provide convenient disposal of the absorbent article. The mechanical fastening system preferably comprises a tape tab having a first fastening element, a landing member comprising a second fastening element engageable with the first fastening element, and disposal means for allowing the absorbent article to be secured in a configuration that provides convenient disposal of the absorbent article. The disposal means preferably comprises a second fastening element affixed to the backing surface of at least one of the tape tabs so that the first fastening element of the opposite tape tab will engage the second fastening element of the disposal means so as to secure the absorbent article in its disposal configuration.

**[0007]** The present invention seeks to provide a disposable training pant with increased adjustability in fit or size beyond that obtainable with elastics. This object is achieved with the features of the claims.

**[0008]** According to the present invention, a disposable training pant is provided having a fibrous outer web which can engage with male mechanical fastening elements on a mechanical fastening tab. The mechanical fastening tab is located on a seam or side panel portion of the training pant such that a free end of the mechanical fastening tab is able to engage the woven or nonwoven outer cover web. The mechanical fastening tab free end adjusts the training pant circumferential or waist fit or size by gathering the side panel portion. The side panel portion is gatherable at least in part by being free of any integrally bonded absorbent core structure.

**[0009]** Preferably, a permanent bond end of the mechanical fastening tab is heat sealed to a fibrous outer web, or an inner liquid permeable topsheet or another fibrous web. This heat sealing permanently bonds or locks at least some of the male mechanical fastening elements of the mechanical fastening tab to fibers of the outer web, topsheet or other web.

**[0010]** In a further preferred embodiment the mechanical fastening tab free end is also subsequently usable as a disposal means when the training pant is removed from the wearer, e.g., by tearing the side panel. The fastening tab remains on the training pant side panel portion. The training pant is then rolled into a compact form for disposal and the mechanical fastening tab is used to keep the training pant in a rolled form.

**[0011]** In the following preferred embodiments of

the invention are exemplified in the figures.

Figure 1 is a perspective view of a first disposable training pant embodiment of the present invention where a mechanical fastening tab is placed adjacent a side seam.

Figure 2 is a top view of a training pant of the present invention having a mechanical fastening tab located within the side seam.

Figure 3 is a fragmentary sectional view of the embodiment shown in Figure 2.

Figure 4 is a fragmentary sectional view of a second alternative embodiment for placement of the mechanical fastening tab.

Figure 5 is a fragmentary sectional view of a third alternative embodiment for placement of a mechanical fastening tab adjacent a welded seam portion.

Figure 6 is a perspective view of a training pant according to the invention in a folded or rolled condition for disposal.

**[0012]** The mechanical fastening tab constructions of the present invention will be described with reference to disposable training pants, however, the constructions would be equally applicable to other like disposable garments and incontinent devices.

**[0013]** A known disposable training pant is depicted in Figures 1 and 2, where the training pant chassis (1) is formed into an absorbent core (2) containing portion and side panel portions (10) designed to fit around the hip of the wearer. The side panel portions (10) with the absorbent core define leg openings in the training pant chassis.

**[0014]** The absorbent core (2) structure would be of conventional design, such as disclosed, for example, in U.S. Patent No. 5,246,433, utilizing absorbent fibers and/or particulates in the form of a discrete pad. The pad is covered on an inner face by a liquid-permeable topsheet (11) and on the outer face by a liquid-impermeable outer layer (18). The liquid-permeable topsheet (11) can cover the absorbent core (2) and extend continuously into the side panel portions (10), as shown in Figure 2, or be attached to the side panel portions (10) by a seam (not shown). Similarly, the liquid-impermeable outer layer (18) can extend beyond the absorbent core (2) portion into the side panel portions (10), as shown in Figure 2, or be attached by a seam (6) to a discrete side panel portion (10).

**[0015]** In a preferred arrangement, as shown in Figure 2, the liquid-impermeable outer layer (18) is a laminate comprising a liquid-impermeable inner layer (17) laminated to an outer layer (19) of a fibrous web. Inner layer (17) would preferably be a liquid-impermeable plastic film such as a polyethylene or polypropylene film or a consolidated woven or nonwoven web. The outer layer (19) is preferably a soft woven (including knitted or stitchbonded webs) or nonwoven web, such as a melt blown, spun bond, carded, or otherwise formed nonwo-

ven web, formed of synthetic and/or natural fibers. Preferably, fibrous web (19) is sufficiently coherent and lofty, such that fibers of the web (19) are spaced sufficiently far apart from each other and the backing such that the fibers are engagable with the mechanical fastening tab free end male mechanical fastening elements.

**[0016]** The liquid-permeable topsheet (11) is of conventional design as used in disposable diapers and generally would be a spun bond web of hydrophobic thermoplastic fibers (i.e., polypropylene fibers). The backsheets and topsheet layers (11 and 18) are joined to each other and the absorbent pad by conventional lamination techniques including the use of hot melt adhesives, thermal bonding, sonic bonding and the like.

**[0017]** The side panel portions (10) can be integral with the front panel (31) of the absorbent core (2) portion and/or the rear panel (32) portion of the absorbent core (2) portion or are joined to each other by a side seam (5), such as shown in Figure 2.

**[0018]** Alternatively, the side panels (10) can be integral with either just the front panel (31) or just the rear panel (32) and extend to the opposing rear or front panel and joined to the opposing panel by adhesion, welding, or the like, such as disclosed in PCT 94/00292, published January 6, 1994.

**[0019]** In a further alternative shown in Figure 1, side panels (10) are attached at seams (6) to both the front panel (31) and the back panel (32) with an intermediate seam (5). Intermediate seam (5) in this arrangement could be eliminated, by using a single side panel element, however preferably, intermediate seam (5) is used to facilitate manufacture of the training pant, such as disclosed in U.S. Patent Nos. 4,938,757 or 5,246,433 and incorporation of the mechanical fastening tab (20) into the seam (5).

**[0020]** Side panels (10) can be elastic or inelastic, however preferably are elastic, such as by incorporation of an elastomeric layer (15) to facilitate fit. The elastomeric layer (15) can be any conventional elastomeric woven or nonwoven web comprising elastomeric fibers such as melt blown fibers, spun bond fibers, extruded fibers, or the like, or an elastomeric film or coextruded elastomeric film. At least the inner or outer face of the side panels are (10) provided with a fibrous woven or nonwoven web, (12) or (14), engagable with the male mechanical fastening elements (25) on the mechanical fastening tab (20).

**[0021]** The mechanical fastening tab (20) has an array of upstanding male mechanical fastening elements (25), which can be in the form of upstanding stems having fiber engaging structures at the distal end, which fiber engaging structures have a shape suitable for engaging fibers. Preferably, the male mechanical fastening elements would be in the form of upstanding hook or mushroom type structures. The elements (25) generally are 75 to 500 microns high from the stem base to the outer tip of the fiber engaging structures. The stems, other than the distal end fiber engaging

structure, would generally be free of fiber engaging structures or protrusions and be straight or taper inward from the stem base to the distal end fiber engaging structure. The distal end fiber engaging structures would generally extend outwardly, preferably outwardly and downwardly, from the stem by a distance at least 1 times the average engaged fiber width.

**[0022]** At a manufacturers end (22), the mechanical fastening tab (20) is permanently bonded to the inner topsheet (11) extension, the inner fibrous web (12) or the outer fibrous web (14). The male mechanical fastening elements (25) on the opposing free end (21) remain free to releasably engage an outer fibrous web (14), outer fibrous web layer (19) or a discrete mating mechanical fastener element attached to a side panel (10) or the front panel (31). This mating mechanical fastener element will also be a fibrous web, such as a woven (including stitchbonded and knitted webs) or non-woven web where the fibers are sufficiently coherent and lofty (e.g., fibrous loops or an open fibrous structure) to engage the male mechanical fastening elements. The mating mechanical fastener element can extend across the entire side panel and/or front panel or rear panel or only a portion of the side panel or front panel or rear panel, or a combination thereof.

**[0023]** The permanent bond at the manufacturers bond end (22) is preferably formed by male mechanical fastening elements (25) securely engaging the fibers of the topsheet or a fibrous web (12, 14, 19 or mating mechanical fastening element). This secure engagement is preferably created by locking the mechanical fastening elements around and between the fibers of the topsheet or fibrous web, using heat welding, pressure welding, ultrasonic welding, mechanical welding, or the like, however an adhesive could also be employed. In this manner, certain of the mechanical fastening elements (25) permanently anchor the fastening tab (20) to at least one panel while other mechanical fastening elements (25) on the fastening tab (20) free end (21) remain undeformed for releasably engaging the fibers of an outer fibrous web (14 or 19) or a suitably placed mating mechanical fastening element.

**[0024]** Mechanical fastening tab (20) allows wide adjustments to the fit or size of the training pant (1) by gathering excess side panel material between the permanently attached manufacturers end (22) and the user placed free end (21). The fit can also be adjusted after wear to gather excess material created due to elastic hysteresis or cold stretching of the side panels (10) or absorbent core structure (2) of the training pant chassis (1). Either one or more mechanical fastening tabs (20) can be placed on or adjacent each side panel (10), with the mechanical fastening tabs (20) placeable on one or both sides of the training pant (1). When the training pant (1) is ready for disposal, the mechanical fastening tab (20) can be used to maintain the training pant in a rolled or folded form, as shown in Figure 6, by suitable placement of the free end (21) of the mechanical fasten-

ing tab (20) where the manufacturers end (22) remains permanently attached to one panel (10).

**[0025]** Fig. 3 shows a preferred embodiment for placement of the fastening tab (20) between adjacent side panels (10) connected by a seam (5), such as shown in Figure 1. Although in Fig. 1 this seam (5) is shown provided equidistantly between the front and rear panels (31) and (32) of the absorbent pad (2) structure, the seam (5) can be placed at any location, and one or more seams can be provided depending on the number and type of side panels (10). For example, in European Patent Application No. 320 989, an intermediary break-away inelastic side panel is provided between two elastic side panels providing at least two seams and three side panels intermediary the front and rear panels (31) and (32) of the absorbent core (2) structure. The side panels (10) are joined along seam (5) by use of heat, pressure, ultrasonics, or the like, which preferably simultaneously permanently engages the male mechanical fastening elements (25) on manufacturers end (22) with the fibers of the inner fibrous web (12) or a topsheet extension. If the side seam (5) is subsequently torn, in order to remove the training pant, the mechanical fastening tab (20) will remain permanently attached to one panel element (10) by the fastening elements (25) on manufacturers end (22), suitably releasing from the opposing panel element (10) on the opposite face of the tab along side seam (5).

**[0026]** In the alternative embodiment of Fig. 4, the mechanical fastening tab (20) is permanently bonded to the outer fibrous web (14) on a side panel (10). Alternatively, the outer fibrous web could be web 19 or a mating mechanical fastening element. Preferably, the permanent bond is formed simultaneously with the formation of the side seam (5), however, this permanent bond can be created before or after formation of the side seam (5). Mechanical inter-locking of the fastening elements (25) at manufacturer's end (22) with the fibers of web (14) keep the fastening tab (20) temporarily in place prior to formation of the permanent bond through the application of heat, pressure, ultrasonics, or the like, to permanently lock at least some of the fastening elements (25) with the fibers of web (14).

**[0027]** In the embodiment shown in Fig. 5, the mechanical fastening tab (20) is bonded at manufacturers end (22) to a face of a side panel (10) having an outer fibrous web (14). Fig. 5 shows the presence of a welded side seam (29), which can be formed in the manner described in U.S. Patent No. 5,246,433.

**[0028]** As is clear from the above description, the invention training pant design allows wide adjustments in fit and size, by a suitable gathering of side panel material between a permanently attached manufacturers end (22) and a free end (21) of a mechanical fastening tab (20). The permanent bond at end (22) can be created without the necessity of adhesive, although such certainly could be employed, and is easily integrated into known manufacturing schemes which

employ heat, ultrasonics, or pressure to form side seams for disposable training pants.

#### Claims

1. A disposable training pant (1) comprising an absorbent core structure (2) formed by an absorbent pad with a liquid-permeable topsheet (17) covering one face and a liquid-impermeable outer layer (18) covering the opposing face of the absorbent pad, at least two side panel portions (10) joining a front panel (31) and a rear panel (32) of the absorbent core structure (2) so as to form a waist opening and two leg openings, at least one mechanical fastening tab (20), having male mechanical fastening elements (25) on at least one face, said mechanical fastening tab male mechanical fastening elements are permanently bonded to at least one panel portion (10) at a manufacturers bond end (22), said male mechanical fastening elements on a free end of the mechanical fastening tab (20) being releasably engagable with a first fibrous web (19) on the outer face of the disposable training pant (1), wherein by placement of the free end (21) of the mechanical fastening tab (20) on the outer face fibrous web (19), said side panel portion (10) can be gathered between the manufacturers bond end (22) and the free end (21) of the mechanical fastening tab (20).
2. The disposable training pant (1) of claim 1 wherein the male mechanical fastening element (25) comprises a stem with an enlarged fiber engaging structure at the stem distal end.
3. The disposable training pant (1) of claim 1 wherein said manufacturers bond end (22) male mechanical fastening elements (25) are welded to the fibers of said first fibrous web (14 or 19).
4. The disposable training pant (1) of claim 1 wherein said manufacturers bond end (22) male mechanical fastening elements (25) are attached to said first fibrous web (14 or 19) at a first seam (5) between at least one side panel portion (10) and an adjacent panel (10).
5. The disposable training pant (1) of claim 4 wherein said first seam (5) is between said at least one side panel portion (10) and an adjacent side panel (10) or a front or rear panel (31 or 32) of the diaper absorbent core structure.
6. The disposable training pant (1) of claim 1 wherein the manufacturers bond end (22) is bonded to the at least one panel portion (10) at least by engagement of the male mechanical fastening elements (25) on said manufacturers bond end (22) with fib-

ers of a second fibrous web (14 or 12) on the inner or outer face of said at least one panel portion.

7. The disposable training pant (1) of claim 1 wherein the manufacturers bond end (22) is attached to a second fibrous web (14) on the outer face of said at least one side panel portion.
8. The disposable training pant (1) of claim 1 wherein the first fibrous web (19 or 14) is on an outer face of an adjacent panel.
9. The disposable training pant (1) of any of claims 6 to 8 wherein the first or second fibrous web (12, 14 or 19) is a nonwoven fibrous web.
10. The disposable training pant of claim 8 wherein the first fibrous web (14 or 19) is a knitted or woven fibrous web having fibrous loops.

#### Patentansprüche

1. Einweg-Gewöhnungshöschen (1), aufweisend: eine absorbierende Kernstruktur (2), die durch ein absorbierendes Polster mit einer eine Fläche bedeckenden flüssigkeitsdurchlässigen oberen Lage (17) und einer die entgegengesetzte Fläche des absorbierenden Polsters bedeckenden flüssigkeitsundurchlässigen Außenschicht (18) gebildet ist, mindestens zwei Seitenwandabschnitte (10), die eine vordere Wand (31) und eine hintere Wand (32) der absorbierenden Kernstruktur (2) verbinden, so daß sie eine Taillenöffnung und zwei Beinöffnungen bilden, mindestens eine mechanische Befestigungslasche (20) mit männlichen mechanischen Befestigungselementen (25) an mindestens einer Fläche, wobei die männlichen mechanischen Befestigungselemente der mechanischen Befestigungslasche permanent mit mindestens einem Wandabschnitt (10) an einem Herstellerverbindungsende (22) verbunden sind, wobei die männlichen mechanischen Befestigungselemente an einem freien Ende der mechanischen Befestigungslasche (20) lösbar in einen ersten faserigen Stoff (19) an der Außenfläche des Einweg-Gewöhnungshöschen (1) eingreifen können und wobei der Seitenwandabschnitt (10) durch Anordnen des freien Endes (21) der mechanischen Befestigungslasche (20) am faserigen Stoff (19) der Außenfläche zwischen dem Herstellerverbindungsende (22) und dem freien Ende (21) der mechanischen Befestigungslasche (20) gerafft werden kann.
2. Einweg-Gewöhnungshöschen (1) nach Anspruch 1, wobei das männliche mechanische Befestigungselement (25) einen Stengel aufweist, der an seinem distalen Ende eine vergrößerte Fasereingriffsstruktur aufweist.

3. Einweg-Gewöhnungshöschen (1) nach Anspruch 1, wobei die männlichen mechanischen Befestigungselemente (25) des Herstellerverbindungsendes (22) an die Fasern des ersten faserigen Stoffs (14 oder 19) angeschweißt sind. 5
4. Einweg-Gewöhnungshöschen (1) nach Anspruch 1, wobei die männlichen mechanischen Befestigungselemente (25) des Herstellerverbindungsendes (22) an einem ersten Saum (5) zwischen mindestens einem Seitenwandabschnitt (10) und einer angrenzenden Wand (10) an dem ersten faserigen Stoff (14 oder 19) angebracht sind. 10
5. Einweg-Gewöhnungshöschen (1) nach Anspruch 4, wobei sich der erste Saum (5) zwischen dem mindestens einen Seitenwandabschnitt (10) und einer angrenzenden Seitenwand (10) oder einer vorderen oder hinteren Wand (31 oder 32) der absorbierenden Kernstruktur der Windel befindet. 15 20
6. Einweg-Gewöhnungshöschen (1) nach Anspruch 1, wobei das Herstellerverbindungsende (22) zumindest durch Eingreifen der männlichen mechanischen Befestigungselemente (25) am Herstellerverbindungsende (22) in Fasern eines zweiten faserigen Stoffs (14 oder 12) an der Innen- oder der Außenfläche des mindestens einen Wandabschnitts mit dem mindestens einen Wandabschnitt (10) verbunden ist. 25 30
7. Einweg-Gewöhnungshöschen (1) nach Anspruch 1, wobei das Herstellerverbindungsende (22) an einem zweiten faserigen Stoff (14) an der Außenfläche des mindestens einen Seitenwandabschnitts angebracht ist. 35
8. Einweg-Gewöhnungshöschen (1) nach Anspruch 1, wobei sich der erste faserige Stoff (19 oder 14) an einer Außenfläche einer angrenzenden Wand befindet. 40
9. Einweg-Gewöhnungshöschen (1) nach einem der Ansprüche 6 bis 8, wobei der erste oder der zweite faserige Stoff (12, 14 oder 19) ein nicht gewobener faseriger Stoff ist. 45
10. Einweg-Gewöhnungshöschen nach Anspruch 8, wobei der erste faserige Stoff (14 oder 19) ein gewirkter oder gewobener faseriger Stoff mit faserigen Maschen ist. 50

#### Revendications

1. Culotte de propreté jetable (1) comprenant une structure (2) à partie centrale absorbante formée par un tampon absorbant comportant une feuille supérieure (17) perméable au liquide recouvrant 55

une face, et une couche extérieure (18) imperméable au liquide recouvrant la face opposée du tampon absorbant, au moins deux parties latérales (10) joignant une partie frontale (31) et une partie arrière (32) de la structure (2) à partie centrale absorbante, de façon à former une ouverture au niveau de la taille et deux ouvertures pour les jambes, au moins une patte (20) de fixation mécanique comportant des éléments mâles (25) de fixation mécanique sur au moins une face, lesdits éléments mâles de fixation mécanique, placés sur la patte de fixation mécanique, sont fixés de façon permanente sur au moins une partie latérale (10) au niveau d'une extrémité d'attache fabricant (22), lesdits éléments mâles de fixation mécanique placés sur une extrémité libre de la patte (20) de fixation mécanique pouvant s'engager de façon détachable dans un premier tissu fibreux (19) sur la face extérieure de la culotte de propreté jetable (1) où, en plaçant l'extrémité libre (21) de la patte (20) de fixation mécanique, sur la face extérieure du tissu fibreux (19), ladite partie latérale (10) peut être rassemblée entre l'extrémité d'attache fabricant (22) et l'extrémité libre (21) de la patte (20) de fixation mécanique.

2. Culotte de propreté jetable (1) selon la revendication 1, dans laquelle l'élément mâle (25) de fixation mécanique comprend une tige comportant une structure agrandie s'engageant dans les fibres au niveau de l'extrémité distale de la tige.
3. Culotte de propreté jetable (1) selon la revendication 1, dans laquelle lesdits éléments mâles (25) de la fixation mécanique, placés sur l'extrémité d'attache fabricant (22), sont soudés sur les fibres dudit premier tissu fibreux (14 ou 19).
4. Culotte de propreté jetable (1) selon la revendication 1, dans laquelle lesdits éléments mâles (25) de fixation mécanique, placés sur l'extrémité d'attache fabricant (22), sont fixés sur ledit premier tissu fibreux (14 ou 19) au niveau d'une première couture (5), entre au moins une partie latérale (10) et une partie latérale adjacente (10).
5. Culotte de propreté jetable (1) selon la revendication 4, dans laquelle ladite première couture (5) est placée entre au moins ladite partie latérale (10) et une partie latérale adjacente (10) ou entre une partie frontale ou arrière (31 ou 32) de la structure à partie centrale absorbante de la couche.
6. Culotte de propreté jetable (1) selon la revendication 1, dans laquelle l'extrémité d'attache fabricant (22) est fixée sur au moins une partie latérale (10), au moins par engagement des éléments mâles (25) de fixation mécanique placés sur ladite extrémité

(22) d'attache fabricant, avec des fibres d'un second tissu fibreux (14 ou 12) sur la surface intérieure ou extérieure au moins de ladite partie latérale.

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7. Culotte de propreté jetable (1) selon la revendication 1, dans laquelle l'extrémité d'attache fabricant (22) est fixée sur un second tissu fibreux (14), sur la face extérieure au moins de ladite partie latérale.
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8. Culotte de propreté jetable (1) selon la revendication 1, dans laquelle le premier tissu fibreux (19 ou 14) est sur une face extérieure d'une partie adjacente.
- 15
9. Culotte de propreté jetable (1) selon l'une quelconque des revendications 6 à 8, dans laquelle le premier ou le second tissu fibreux (12, 14 ou 19) est un tissu fibreux non tissé.
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10. Culotte de propreté jetable (1) selon la revendication 8, dans laquelle le premier tissu fibreux (14 ou 19) est un tissu à mailles ou un tissu fibreux tissé ayant des boucles fibreuses.

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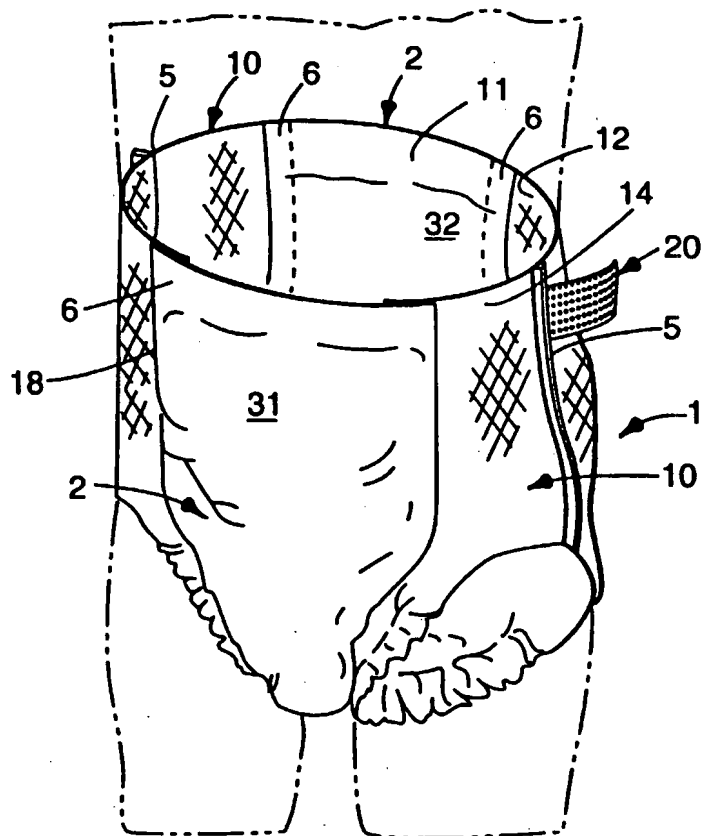
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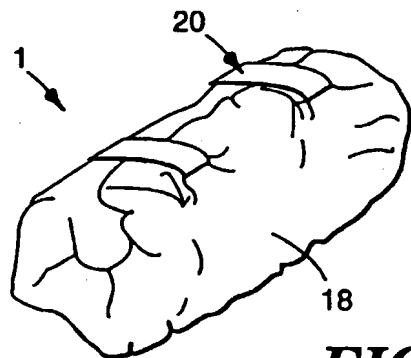
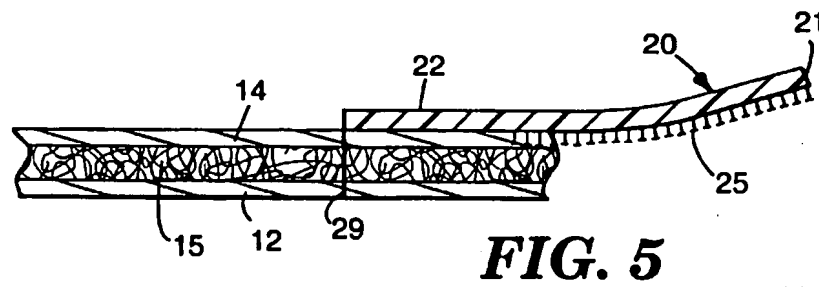
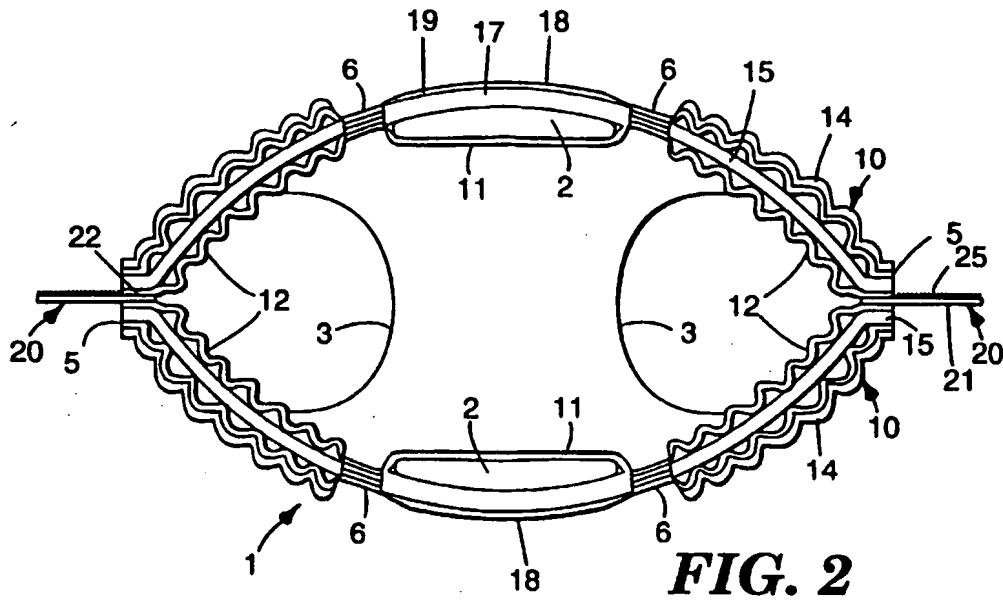
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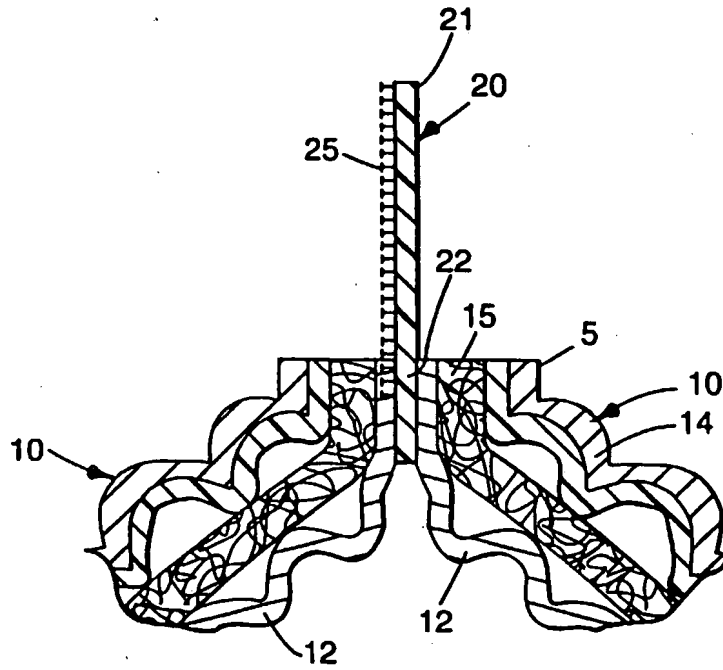
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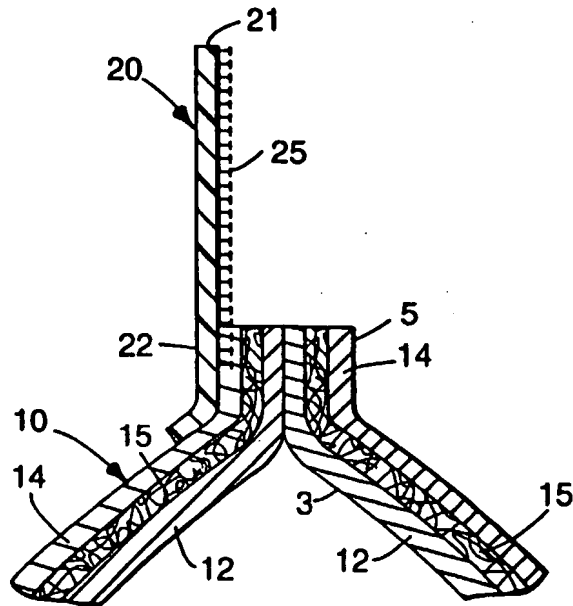
**FIG. 1**







**FIG. 3**



**FIG. 4**